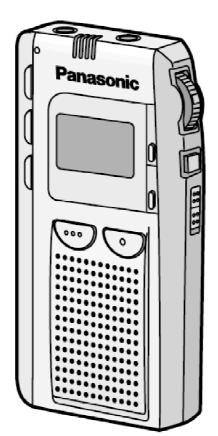
## AD0102040C8

# Service Manual

**IC** Recoder



RR-XR320
Colour
(S).....Silver Type
Area
(E)....Europe, Asia, Latin America, Middle Near East, Africa
and Oceania.



**SPECIFICATIONS** 

**Power requirement:** DC 3 V (two LR03, AAA, AM-4 batteries)

Power output: 200 mW (max.)

Frequency response: 400 Hz–6000 Hz (HQ mode)

Jack:

Output jack; Earphone, 3.5 mm; 3 mW, 16  $\Omega$ 

Input jack; Mic, 3.5 mm; 0.56 mV

Speaker:  $28 \text{ mm}, 8 \Omega$ 

Dimensions (W $\times$ H $\times$ D):

Max dimensions;  $47.9 \times 91.5 \times 16.0 \text{ mm}$  Cabinet dimensions;  $47.5 \times 91.0 \times 13.0 \text{ mm}$ 

Mass:

with batteries; About 68 g without batteries; About 45 g

## **Battery life:**

[When used at 25°C, on a flat, stable surface]

Batteries	Playback	Recording
Panasonic	About 6 hours	About 11 hours
alkaline batteries		

• The battery life may be less depending on the operating conditions.

Note

Specifications are subject to change without notice.

Mass and dimensions are approximate.

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## **⚠ WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

# **Panasonic**®

# 1. Location of Controls

## 2. An Outline of SD Voice Editor

# 3. Troubleshooting

- About troubleshooting
- In this troubleshooting guide, we investigate and determine whether the operational problem is in the IC recorder itself, in a SD card and in the PC when problems arise. Such problems include the inability to record or playback the SD cardwhich is installed in

- the IC recorder, or the inability to transfer data between the SD card and the PC.
- Operation check of the IC recorder is the next section. Please refer to "Operation Check Mode".
- Operation check of the IC recorder is the next section. Please refer to "Operation Check Mode".
- What to prepare
- A PC that has the exclusive application software (SD Voice Editor version 1.0) installed. Be sure to check for normal operation of the PC. If other application software is installed in the PC, be sure that this software does not affect theoperation of the SD Voice Editor version 1.0.
- When a user's product is taken in for service, be sure to obtain not only the player but also the user's SD card and USB reader/writer.
   Also, try to obtain as much information as possible on the operational environmentof the user's PC.
   <PC's operational environment>
   Product name, model number, name of CPU, operation clock, RAM capacity, HD capacity, names of installed software, use of USB hub, and any equipment connected with USB simultaneously.
- Checkpoints before servicing
- Is the write-protect switch on the SD card set to LOCK?
- Does the battery have enough capacity?

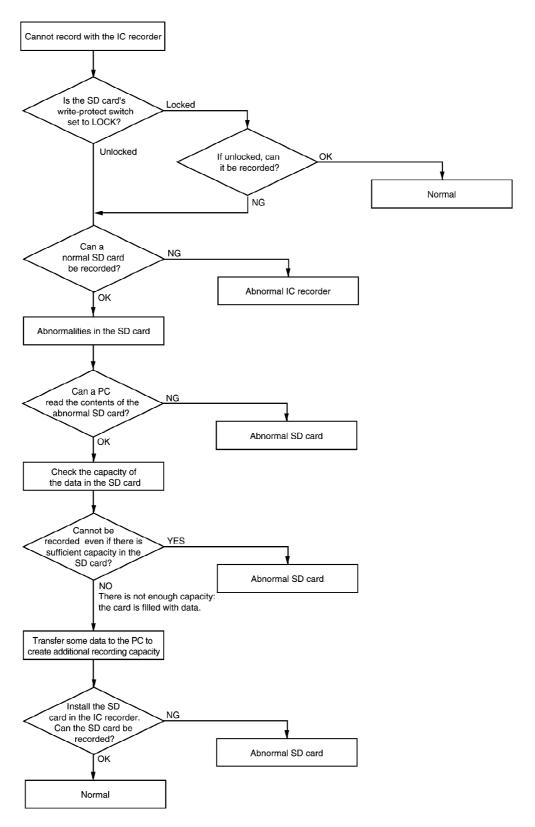
  Be aware that manganese batteries do not have sufficient capacitor; their use can result in improper operation.
- Precautions
- A PC sometimes does not recognize the USB reader/writer depending on its conditions (such as competing with the installed software). Therefore, always keep the PC in good condition so that any adaptor can be connected properly.
- There is a possibility that not only the hardware but also software (PC's application software) may be the source of the problem.
   Therefore, be sure to inspect all potential sources carefully and thoroughly before specifying any causes.
- Check the connection part of the card to see whether it is dirty or has any foreign objects attached to it before specifying the cause of the problem. the written data (signals) will be erased and cannot

be recovered.

- If the card is formatted, the written data (signals) will be erased and cannot be recovered.
- When you format the card, be sure to format it with the IC recorder's formatter. If the card is formatted with Windows or MS-DOS, the card will not operate in the IC recorder or with the SD Voice Editor version 1.0.

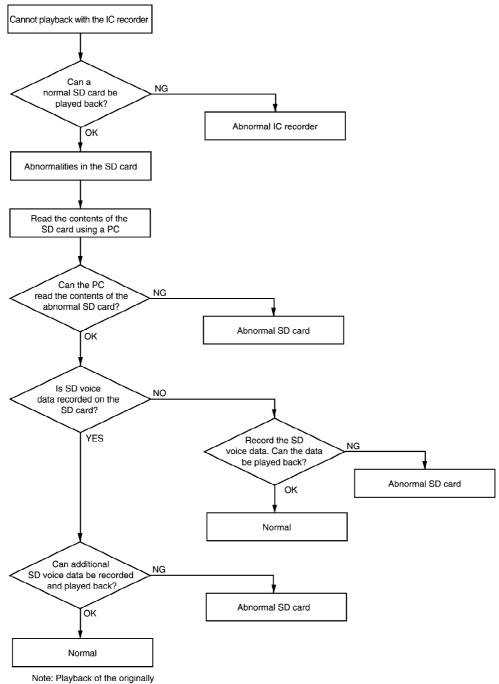
## 3.1. Cannot record with the IC recorder

This is to determine whether the cause of the problem is in the IC recorder or in one of the accessories.



# 3.2. Cannot playback with the IC recorder

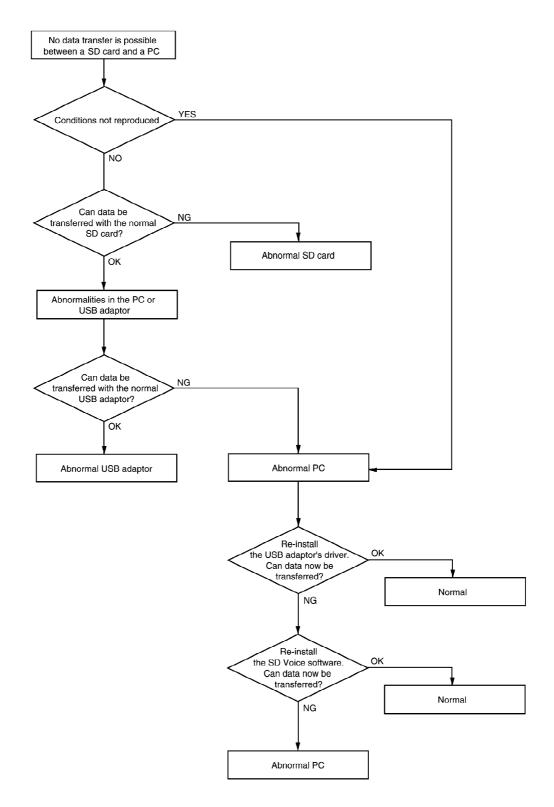
This is to determine whether the cause of the problem is in the IC recorder or in one of the accessories.



recorded data is not possible.

## 3.3. No data transfer is possible between a SD card and a PC

This is to determine whether the cause of the problem is in the IC recorder or in one of the accessories.



# 4. Operation Check Mode

In this mode, you can check the LCD indication, the operation of each button and switch, and also whether recording and playback can be performed normally.

Warning:

After finishing the operation check mode, you need to remove the batteries and reinstall them before proceeding.

All data will be erased.

## Note:

If there is no recordable track, operation of recording and playback cannot be checked.

Be sure to erase any unnecessary tracks.

## 4.1. Entering the operation check mode

Set the HOLD switch to ON and immediately perform the following procedure. Each button operation should be made within 0.5 seconds; otherwise the operation check mode cannot be entered. Perform the procedure below in a smooth, rhythmicmanner.

- 1. Press the STOP button.
- 2. While pressing the STOP button, press the ERASE button.
- 3. While pressing the STOP button, release the ERASE button.
- 4. Release the STOP button.

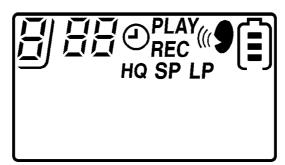
### Note:

If the procedure fails and the operation check mode cannot be accessed, remove the batteries and reinstall them in the player. Then perform the above procedure again.

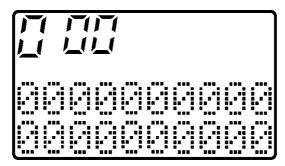
The entire upper block of LCD lights up and the REC LED blinks. This indicates that the operation check mode has been accessed.

# 4.2. Checking the operation

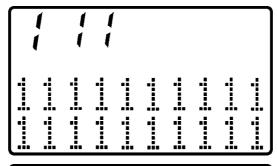
1. Confirm that the indications of the LCD are as shown below.

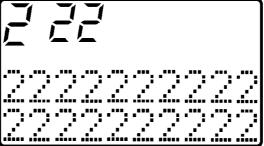


2. Release the HOLD switch. Confirm that the indications of the LCD are as shown below.

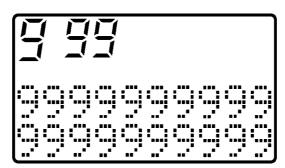


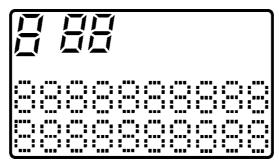
3. Rotate the SELECT, ENTER shuttle button to the downward position. Confirm that the indications of the LCD change from 0 to 1 to 2 and so on.



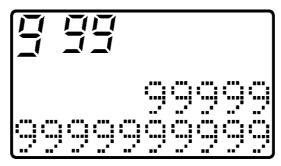


4. Rotate the SELECT, ENTER shuttle button to the upward position. Confirm that the indications of the LCD change from... to 9 to 8 and so on.

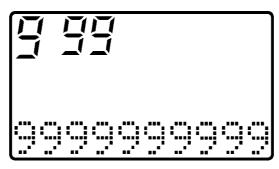




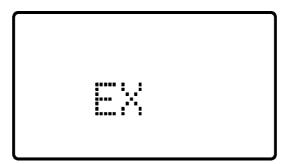
5. Rotate the SELECT, ENTER shuttle button so that all indications of the LCD are set at 9. (If you proceed to next step with a digit other than 9 selected, the indications of the LCD will be different from those shown below.) Press the ERASE button.Confirm that the indications of the LCD are as shown below.



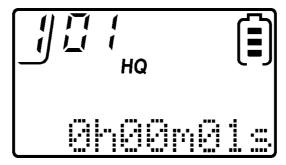
6. Press the VOLUME (+) button. Confirm that the indications of the LCD are as shown below.



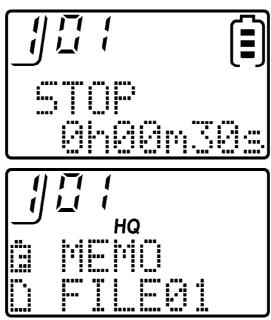
7. Press the VOLUME (-) button. Confirm that the indications of the LCD are as shown below.



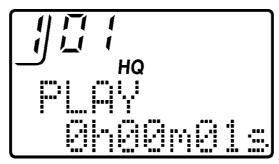
8. Press the RECORD/PAUSE button. Confirm that the indications of the LCD are as shown below and also that recording has started.



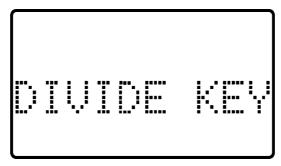
9. Press the STOP button. Confirm that the indications of the LCD have changed as shown below and also that recording has stopped.



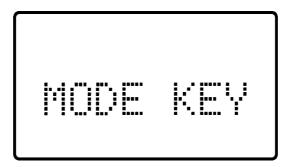
10. Press the FOLDER button. Confirm that the indications of the LCD are as shown below and also that playback has started.



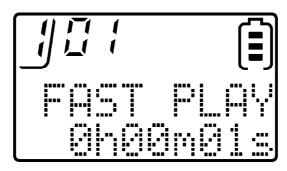
11. Press the DIVIDE button. Confirm that the indications of the LCD are as shown below.



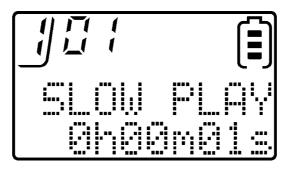
12. Press the MODE button. Confirm that the indications of the LCD are as shown below.



13. Set the playback speed control on the rear side of the recorder to FAST. Confirm that the indications of the LCD are as shown below.

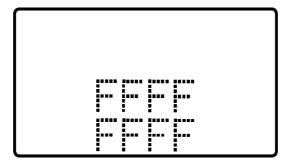


14. Set the playback speed control on the rear side of the recorder to SLOW. Confirm that the indications of the LCD are as shown below.



15. Press the SELECT, ENTER shuttle button. Confirm that the

indications of the LCD are as shown below.



16. Open the SD memory card cover. Confirm that the indications of the LCD are as shown below.

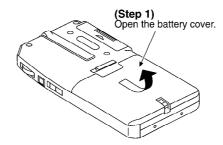


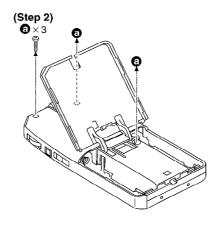
This concludes the operation check procedure

To exit the operation check mode, remove the batteries. Then reinstall them.

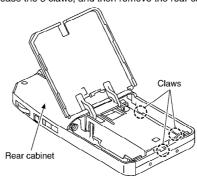
# 5. Operation Checks and Component Replacement Procedures

- This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
- For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.
- 5.1. Cheking for the main P.C.B.

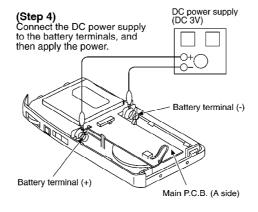


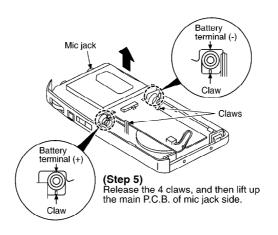


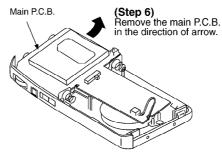
(Step 3) Release the 3 claws, and then remove the rear cabinet.



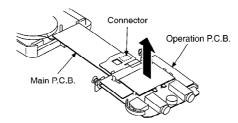
# - Check the main P.C.B. (A side) as shown below.

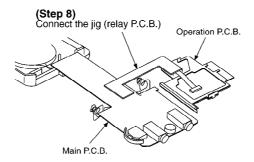






(Step 7) Remove the connector, and then remove the operation P.C.B..



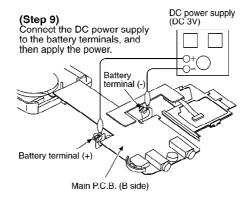


Concerning the jig (relay P.C.B.)

We do not supply this relay P.C.B. as a replacement part.

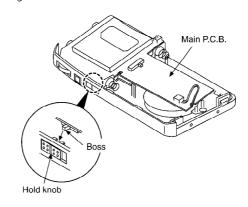
Please order to AV Network Group Sales Engineering Department.

- Part No. : RFKZ0101
- Check the main P.C.B. (B side) as shown below.



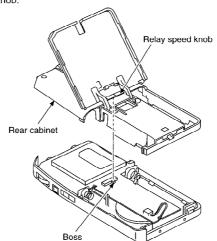
## Notice for installation of main P.C.B.

 $\boldsymbol{\cdot}$  Align the boss of switch with the bent of hold knob.



## Notice for installation of rear cabinet

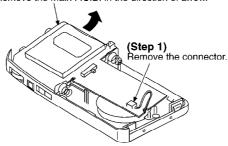
 Align the boss of switch with the bent of relay speed knob.

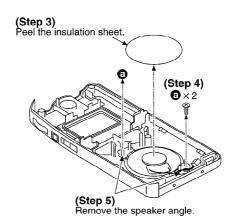


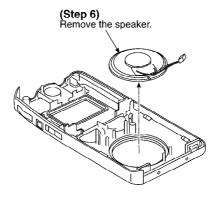
# 5.2. Replacement for the speaker

- Follow the (Step 1) - (Step 5) of item 5.1.

(Step 2)
Remove the main P.C.B. in the direction of arrow.

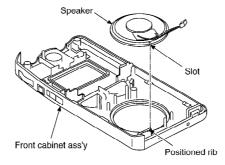






## Notice for installation of speaker

 Align the slot of speaker with the positioned rib of front cabinet ass'y.



# 6. Type Illustration of ICs, Transistors and Diodes

# 7. Schematic Diagram Notes

- This schematic diagram may be modified at any time with the development of new technology.

Notes:

S301:

SD memory card cover open/close detect switch in OFF position

S302:

Hold (HOLD) switch in OFF position

S303:

Shuttle key (SELECT, ENTER) switch

S304:

Battery cover open/close detect switch in OFF position

S305:

**Erase (ERACE) switch** 

S306:

Playback speed switch (PLAYBACK SPEED) in NORMAL position
/(SLOW NOR FAST)

S701:

Stop (STOP) switch

S702:

Volume down (VOLUME -) switch

S703:

Volume up (VOLUME +) switch

S704:

Mode (MODE) switch

S705:

Divide (DIVIDE) switch

S706:

Folder (FOLDER) switch

S707:

Recording, pause ( REC PAUSE) switch

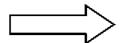
- The supply part number is described alone in the replacement parts list.
- Voltage and signal line



: Positive voltage line



: Audio (analog) signal line



- : Audio (digital) signal line
- Important safety notice:

Components identified by <u>A</u> mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufacturers specified parts shown in the parts list.

- Caution!

IC and LSI are sensitive to static electricity.

Secondary trouble can be prevented by taking care during repair.

Cover the parts boxes made of plastics with aluminum foil.

Ground the soldering iron.

Put a conductive mat on the work table.

Do not touch the legs of IC or LSI with the fingers directly.

- Note on repairing

IC as shown below is not available again with removing from printed circuit board once.

Please be sure to replace it to new one.

- IC101.....MN66817SDLDR
- IC202......CY62136VL70B
- IC301.....MN102H60GRA
- IC401.....ML2302

# 8. Schematic Diagram

# 9. Printed Circuit Board and Wiring connection Diagram

# 10. Block Diagram

# 11. Terminal Function of ICs

## 11.1. IC301 (MN102H60GRA): / System Control

Pin	Terminal	I/O	Function
No.	Name		
1	MNDK WAIT	0	Bus acknowledge signal output
2	/RE	0	Read enable signal output
3	/WEL	0	Write enable signal output (Low)
4	/WEH	0	Write enable signal output (High)
5	CODEC RST	0	Reset signal output for IC401
6	/CS1 SRAM	0	Chip select signal output for IC202
7	/CS2 CODEC	0	Chip select signal output for IC401
8	/CS3 ASIC	0	Chip select signal output for IC101
9	LOADER BOOT	0	Loader boot signal output
10	CODEC D/C	0	Data/command select signal output for IC401
11	ASIC RST	0	Reset signal output for IC101
12	/WORD	ı	Data/bus width set signal input
13	Α0		
	1	0	Address /bus 0-3 signal output
1	А3		
16			
17	VDD	I	Power supply terminal
18	BOSC	0	System clock signal output

Pin No.	Terminal Name	I/O	Function
19	Vss		GND terminal
20	XI	ı	Oscillator connected terminal (F
21	ХО	0	=32.7 kHz)
22	VDD	ī	Power supply terminal
23	OSCI	<u> </u>	Oscillator connected terminal (F
24	osco	0	=16.3 MHz)
25	MODE	Ť	Mode select signal input
			(Connected to VDD )
26	A4		
	ı	0	Address /bus 4-11 signal output
ı	A11		
33			
34	AVDD	I	Power supply terminal
35	A12		
	ı	0	Address /bus 12-17 signal
1	A17		output
40			
41	FAST	I	Fast speed playback signal
			input
42	SLOW L	I	Slow speed control signal input
43	VREF-	ı	Reference voltage input (-)
44	HOLD	ı	Hold switch signal input
45	CARD	I	SD memory card cover open
	PULL		detect signal input
46	SLOW	I	Slow speed playback signal
	001101/		input
47	CBUSY	I	Command signal input from
48	VAS IN		IC401
48 49	MUTE	<u>'</u>	VAS signal input Not used, open
50		0	Power supply terminal for LCD
51	LCDVcc FIFOST		REC/PLAY monitor control
31	FIFUSI	0	signal output
52	MIC S	0	Microphone sensitivity setting
52		•	signal output
53	BEEP	0	Beep signal output
54	VREF(+)	Ī	Power supply terminal
55	TEST	ī	Setting signal input for P.C.B.
			check
56	CLK	0	Clock oscillator control signal
	OFF L		output (Low)
57	/REC	0	LED (REC) drive signal output
	LED		

F	Terminal	I/O	Function
No.	Name		
58	REC	0	Power select signal output for microphone
59	FILTER A	0	Bi-pass filter output
60	AD	0	A/D converter active signal
	CONV L		output
61	AVss	-	GND terminal
62	KEY AD1	I	Operation key signal input 1
63	KEY AD2	ı	Operation key signal input 2
64	REC LEVEL	I	Recording level signal input
65	BATT VOL	I	Battery voltage input
66	VDD	ı	Power supply terminal
67	LCD CLK	0	LCD serial clock signal output
68	NC	-	Not used, open
69	LCD DO	0	LCD serial data signal output
70	LCD STB	0	LCD driver strobe signal output
71	REG	-	Area select signal input (Not
			used, connected to VDD )
72	BATT DET	I	Battery detection signal input
72		1	Dull up signal input 0
13	PULLUP0	•	Pull-up signal input 0 (Connected to VDD)
74	PULLUP1		Pull-up signal input 1
•	FULLUFI	•	(Connected to V <sub>DD</sub> )
75	/NMI	1	Non maskable interrupt signal
			input
76	/IRQ0	I	Card buffer control interrupt
			signal input
77	/IRQ1	I	Card error detect interrupt
	//500		signal input
78	/IRQ2	I	Battery cover open detect signal input
79	SDCD//	I	SD memory card detect signal
	IRQ3		input
80	LSIMID//	I	FIFO buffer MID detection
	IRQ4		signal input
81	ADSEP	I	Address data separate setting
_			signal input (Connected to VDD)
82	/RST	I	Microcomputer reset signal input
83	V <sub>DD</sub>	ı	Power supply terminal

Pin No.	Terminal Name	I/O	Function
84	D0		
		I/O	Data /bus 0-7 input/output
	D7		
91			
92	Vss	-	GND terminal
93	D8		
		I/O	Data /bus 8-15 input/output
	D15		
100			

# 12. Replacement Parts List

## Notes:

- Important safety notice:

Components identified by <u>A</u> mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufactures specified parts shown in the parts list.

- The <IA>, <IB> mark in Remarks indicate language of instruction manual.

<IA>: English, Spanish, Chinese, German, Italian, French

Swedish, Netherlands, Danish, Russian, Polish, / Czech

- The marking <SPC> indicates in Remarks is supplied by Service Parts Center.
- The marking [RTL] indicates that Retention Time is Limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependenton the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.
- All parts are supplied by MESA.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	L5DCACC00001	LCD	1	
<u>2</u>	RMK0472	CHASSIS	1	
<u>3</u>	RMQ0982	ADHESIVE TAPE	1	
4	L0CBAB000037	BUILT-IN MICROPHONE		
<u>5</u>	RJC40021	BATT.TERMINAL(+)		
<u>6</u>	RJC80022	BATT.TERMINAL(-)	1	
7	RAS3P16-U	SPEAKER	1	
<u>8</u>	REX0932-1	WIRE ASS'Y	1	
9	RGP0828-Q	LENS	1	
<u>10</u>	RGU1922-S	BUTTON,OPERATION	1	
<u>11</u>	RGU1923-S	BUTTON, VOLUME	1	
<u>12</u>	RGU1924-S	BUTTON,MODE	1	
<u>13</u>	RGU1928-H	BUTTON,ERASE	1	
<u>14</u>	RGV0274-H	KNOB,HOLD	1	
<u>15</u>	RJC94015	BATT.TERMINAL+/-	1	
<u>16</u>	RMA1235	ANGLE	2	
<u>17</u>	RMB0676	EARTH TERMINAL	1	
<u>18</u>	RMZ0466	SHEET	1	
19	XQN2+CQ3	SCREW	2	
<u>20</u>	RYK1051A-N	FRONT CABINET UNIT	1	
21	RHQ0051-K	SCREW	3	
22	RGP0829-Q	PANEL	1	
<u>23</u>	RGQ0284-S	CLIP	1	
<u>24</u>	RGV0275-H	KNOB,SPEED	1	
25	RHQ0083-S	SCREW	2	
<u>26</u>	RMS0734	SHAFT	1	
<u>27</u>	RYK1049A-N	REAR CABINET UNIT	1	WITH / BATT.COVER
<u>28</u>	RFKLRXR320-S	CARD COVER ASS'Y	1	
<u>29</u>	RMB0662	SPRING	1	
<u>A1</u>	RQCB0169	SERVICE CENTER LIST	1	
A2	RQT5627-D	OPERATING / INSTRUCTIONS	1	<ia><spc></spc></ia>
A2	RQT5628-E	OPERATING / INSTRUCTIONS	1	<ib><spc></spc></ib>
A3	RQT5631-D	OPERATING / INSTRUCTIONS	1	<ia><spc>FOR / SD VOICE ED.</spc></ia>
<u>A3</u>	RQT5632-E	OPERATING / INSTRUCTIONS	1	<ib><spc>FOR / SD VOICE ED.</spc></ib>
C101	ECUENA104KBQ	10V 0.1U	1	F1G1A104A014
C107	ECUENA104KBQ	10V 0.1U	1	F1G1A104A014
C108	ECUVNC104KBV	16V 0.1U	1	
C110	RCST0GZ106RG	4V 10U	1	F3E0G106A002
C111	ECUVNC104KBV	16V 0.1U	1	
C112	RCST0GZ106RG	4V 10U	1	F3E0G106A002
C113	F3H0J227A001	6.3V 220U	1	
C114	F3H0J1070005	6.3V 100U	1	
C115	ECUE1C103KBQ	16V 0.01U	1	
C117	ECUE1H101KBQ	50V 100P	1	
C118,19	ECUENA104KBQ	10V 0.1U	2	F1G1A104A014
C201,02	ECUVNC104KBV	16V 0.1U	2	
C203	RCST0GZ106RG	4V 10U	1	F3E0G106A002
C301	ECUE1H150JCQ	50V 15P	1	
C302	ECUE1H180JCQ	50V 18P	1	F1G1H180A451
C303	ECUENA104KBQ	10V 0.1U	1	F1G1A104A014

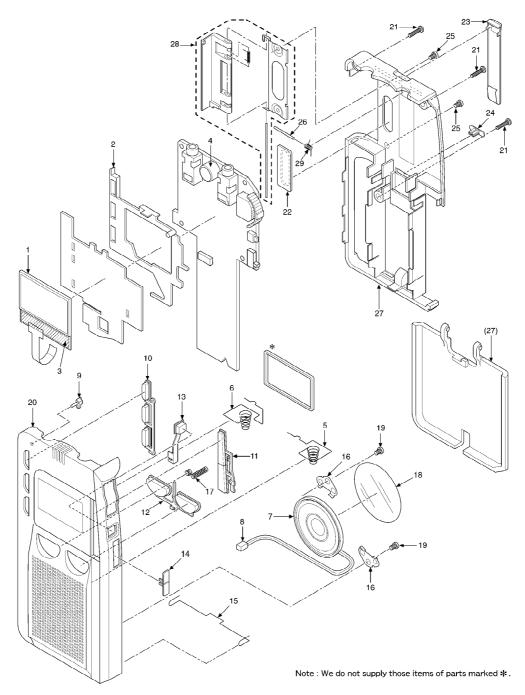
Part No. CUE1H102KBQ CUV1H102KBV CUE1C103KBQ CUENA104KBQ	Part Name & Description 50V 1000P 50V 1000P 16V 0.01U	Pcs 1	Remarks F1G1H102A457
CUV1H102KBV CUE1C103KBQ	50V 1000P		1 TOTTTOZA437
CUE1C103KBQ			
		2	+
JUENA 104NDQ			F4C4 A404 A044
OLIE4LIOOOKBO	10V 0.1U	2	F1G1A104A014
CUE1H222KBQ	50V 2200P	2	F1G1H222A457
	6.3V 1U	1	F1H0J105A002
CUE1H102KBQ	50V 1000P	2	F1G1H102A457
	6.3V 100U	1	E4110 1405 4000
			F1H0J105A002
			F1H0J105A002
			F1G1H331A402
			F1G1H102A457
			F1H0J105A002
	6.3V 100U		
CUE1C103KBQ	16V 0.01U	1	
CUE1H102KBQ	50V 1000P	1	F1G1H102A457
H0J2250002	6.3V 2.2U	1	
CUE1C103KBQ	16V 0.01U	1	
CUENA104KBQ	10V 0.1U	1	F1G1A104A014
CUE1H331KBQ	50V 330P	1	F1G1H331A402
CUE1H101KBQ	50V 100P	1	
CUE1H820JCQ	50V 82P	1	
CUENA104KBQ	10V 0.1U	1	F1G1A104A014
CUENC183KBQ	16V 0.018U	1	F1G1C183A004
CUENA104KBQ	10V 0.1U	2	F1G1A104A014
CUVNJ105KBV	6.3V 1U	1	F1H0J105A002
CUENA104KBQ	10V 0.1U	1	F1G1A104A014
CST0GY226RG	4V 22U	1	F3F0G2260002
CUE1C223KBQ	16V 0.022U	1	F1G1C223A044
CUENA104KBQ	16V 0.1U	1	F1G1A104A014
G1C2230004	16V 0.022U	1	
CUE1H221KBQ	50V 220P	1	F1G1H221A402
CUENA104KBQ	10V 0.1U	1	F1G1A104A014
CUE1H820JCQ	50V 82P	1	
CUENA104KBQ	10V 0.1U	1	F1G1A104A014
CUVNJ105KBV	6.3V 1U	1	F1H0J105A002
CUENA104KBQ	10V 0.1U	1	F1G1A104A014
CUE1E682KBQ	25V 6800P	1	
CUE1H222KBQ	50V 2200P	1	F1G1H222A457
	6.3V 220U	1	
	6.3V 330U	1	
CUV1H102KBV	50V 1000P	1	
CUENA104KBQ	10V 0.1U	1	F1G1A104A014
CST0GZ106RG	4V 10U	1	F3E0G106A002
CUENA104KBQ		1	F1G1A104A014
			F1H1H101A720
			F1H1C333A071
			F1H1H103A748
			F3E0G106A002
551002100NG		'	1 3200 100 100 100 2
IT120C02T	CONNECTOR(2P)	4	K1KA02B00053
			N INAUZDUUU33
1MN07B00053	CONNECTOR(10P)  CONNECTOR(7P)	1	
	CUVNJ105KBV H0J1070005 CUVNJ105KBV CUE1H331KBQ CUE1H102KBQ CUVNJ105KBV H0J1070005 CUE1C103KBQ CUE1H102KBQ H0J2250002 CUE1C103KBQ CUE1H101KBQ CUE1H331KBQ CUE1H331KBQ CUE1H304KBQ CUE1H304KBQ CUE1H304KBQ CUE1H304KBQ CUENA104KBQ	CUVNJ105KBV   C.3V 1U	SUNNJ105KBV   6.3V 1U   3   1   1   1   1   1   1   1   1   1

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
CP701	K1KA10A00270	CONNECTOR(10P)	1	
00404	K4NA42E00004	CONNECTOR/(2P)	4	
CS101	K1NA12E00001	CONNECTOR(12P)	1	
D302	B3AAB0000075	LED	1	
D303	MA111TX	DIODE	1	MA2J11100L
D501-04	MA111TX	DIODE	4	MA2J11100L
D601	MA735TX	DIODE	1	MA2Q73500L
D602	F1J2ETP	DIODE	1	B0JCMC000005
IC101	MN66817SDLDR	IC	1	
IC201	TC7W08FKT85L	IC	1	C0JBAA000245 / <spc></spc>
IC202	CY62136VL70B	IC	1	<spc></spc>
IC203	TC7SA08FUTEL	IC	1	C0JBAA000246 / <spc></spc>
IC301	MN102H60GRA	IC	1	
IC302	XC61CN2002MR	IC	1	C0EBD0000051
IC303	C0EBD0000065	IC	1	
IC401	ML2302	IC	1	
IC501,02	NJM2107FTE1	IC	2	C0ABAB000040
IC601	XC6368B101MR	IC	1	C0DBAZZ00032
		-	-	
JK501	RJJ34TK05-H	JACK	1	K2HC103E0011
JK502	K2HC103E0014	JACK	1	
L501-06	RLBV601V-W	COIL	6	J0JCC0000059
L601	RL09U028T-T	COIL	1	G1C470MA0011
2001	RE0300E01 1	COL	•	O TO TO MINOUTT
<u>P1</u>	RPK1521	GIFT BOX	1	
P2	RPF0317	COVER	1	
<u>P3</u>	RPQ1126	PAD	1	
<u>P4</u>	RPF0320	COVER	1	
<del></del>				
PCB1	REP3093D-M	MAIN PCB	1	[RTL]
PCB2	REP3094B-S	SUB PCB	1	[RTL]
				-
Q501-03	2SK1958T1	TRANSISTOR	3	B1CFHA000001
Q506	2SD1819ASTX	TRANSISTOR	1	2SD1819ASL
Q507	2SK1958T1	TRANSISTOR	1	B1CFHA000001
Q601	2SB1295-6-TB	TRANSISTOR	1	B1ADKB000001
Q602	2SK1958T1	TRANSISTOR	1	B1CFHA000001
Q603	XP151A13A0MR	TRANSISTOR	1	B1DFBC000003
Q604	2SB1218ASTX	TRANSISTOR	1	2SB1218ASL
R101	ERJ3GEYJ270V	1/16W 27	1	
R102	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R102 R103	ERJ2GEJ104X	1/16W 100K	1	ERJ2RMJ104X
R104	ERJ3GEYJ274V	1/16W 270K	1	LIVERING IVAN
R105-08	ERJ3GEYJ220V	1/16W 22	4	
R109	ERJ3GEYJ105V	1/16W 1M	1	
R110	ERJ2GEJ155X	1/16W 1.5M	1	
R111,12		1/16W 22	2	
	ERJ3GEYJ220V			D0GB473 IA002
R113,14 R115,16	ERJ3GEYJ473V ERJ3GEYJ103Z	1/16W 47K 1/16W 10K	2	D0GB473JA002

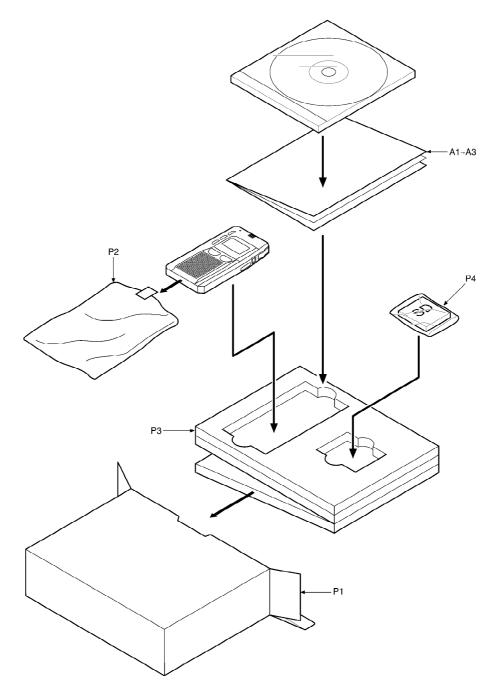
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R118	ERJ2GEJ104X	1/16W 100K	1	ERJ2RMJ104X
R119	ERJ3GEYJ102V	1/16W 1K	1	ERJ3GEYJ102Z
R120	ERJ2GEJ103X	1/16W 10K	1	ERJ2RMJ103X
R121	ERJ3GEYJ103Z	1/16W 10K	1	
R201	ERJ3GEYJ104Z	1/16W 100K	1	
R301	ERJ2GEJ104X	1/16W 100K	1	ERJ2RMJ104X
R302	ERJ2GEJ220X	1/16W 22	1	ERJ2RMJ220X
R303	ERJ2GEJ105X	1/16W 1M	1	D0GA105JA001
R305,06	ERJ2GEJ334X	1/16W 330K	2	ERJ2RMJ334X
R307,08	ERJ2GEJ102X	1/4W 1K	2	ERJ2RMJ102X
	ERJ2GEJ104X	1/16W 100K	1	ERJ2RMJ104X
R311-13	ERJ2GEJ155X	1/16W 1.5M	3	
R314	ERJ2GEJ104X	1/16W 100K	1	ERJ2RMJ104X
R315	ERJ2GEJ155X	1/16W 1.5M	1	
R316	ERJ2GEJ682X	1/16W 6.8K	1	ERJ2RMJ682X
R317	ERJ2RMJ123X	1/16W 12K	1	
318	ERJ2GEJ682X	1/16W 6.8K	1	ERJ2RMJ682X
R319	ERJ2GEJ153X	1/16W 15K	1	ERJ2RMJ153X
R320	ERJ2GEJ333X	1/16W 33K	1	ERJ2RMJ333X
R321	ERJ2GEJ155X	1/16W 1.5M	1	ENGERMOOOK
R323	ERJ2GEJ334X	1/16W 330K	1	ERJ2RMJ334X
R324	ERJ2GEJ152X	1/16W 1.5K	1	ERJ2RMJ152X
R325	ERJ2GEJ102X	1/4W 1K	1	ERJ2RMJ102X
R326	ERJ2GEJ102X	1/16W 10K	1	ERJ2RMJ103X
R327	ERJ2GEJ102X	1/4W 1K	1	ERJ2RMJ103X
				ERJ2RIVIJ 102A
R328	ERJ2GEJ106X	1/16W 10M	1	ED JORN MOOV
R403	ERJ2GEJ103X	1/16W 10K	1	ERJ2RMJ103X
R404	ERJ2GEJ102X	1/4W 1K	1	ERJ2RMJ102X
R405	ERJ2GE0R00X	CHIP JUMPER	1	ED IODM IAOAY
R501	ERJ2GEJ124X	1/16W 120K	1	ERJ2RMJ124X
R502	ERJ2GEJ222X	1/16W 2.2K	1	ERJ2RMJ222X
R503	ERJ2GEJ332X	1/16W 3.3K	1	ERJ2RMJ332X
R504,05	ERJ2GEJ274X	1/16W 270K	2	D0GA274JA001
R506	ERJ2GEJ102X	1/16W 1K	1	ERJ2RMJ102X
R507	ERJ2GEJ274X	1/16W 270K	1	D0GA274JA001
R509	ERJ2GEJ472X	1/16W 4.7K	1	ERJ2RMJ472X
R510	ERJ2GEJ225X	1/16W 2.2M	1	ERJ2RMJ225X
R511	ERJ2GEJ103X	1/16W 10K	1	ERJ2RMJ103X
R512	ERJ2GEJ105X	1/16W 1M	1	D0GA105JA001
R513	ERJ2GEJ104X	1/16W 100K	1	ERJ2RMJ104X
R515	ERJ2GEJ473X	1/16W 47K	1	ERJ2RMJ473X
R516	ERJ2GEJ105X	1/16W 1M	1	D0GA105JA001
R517	ERJ2GEJ222X	1/16W 2.2K	1	ERJ2RMJ222X
R518	ERJ2GEJ473X	1/16W 47K	1	ERJ2RMJ473X
R519	ERJ2GEJ121X	1/16W 120	1	ERJ2RMJ121X
R520	ERJ2GEJ103X	1/16W 10K	1	ERJ2RMJ103X
R522	ERJ3GEYJ682V	1/16W 6.8K	1	D0GB682JA002
R524	ERJ2GE0R00X	CHIP JUMPER	1	
R525	ERJ2RMJ560X	1/16W 56	1	
R526	ERJ2GEJ124X	1/16W 120K	1	ERJ2RMJ124X
R527	ERJ2GEJ123X	1/16W 12K	1	
R528,29	ERJ2GEJ105X	1/16W 1M	2	D0GA105JA001
R531	ERJ2GEJ103X	1/16W 10K	1	ERJ2RMJ103X
R532	ERJ2GEJ472X	1/16W 4.7K	1	ERJ2RMJ472X

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R534,35	ERJ2GEJ223X	1/16W 22K	2	ERJ2RMJ223X
R536	ERJ2GEJ333X	1/16W 33K	1	ERJ2RMJ333X
R537	ERJ2GEJ101X	1/16W 100	1	ERJ2RMJ101X
R601	ERJ3GEYJ472V	1/16W 4.7K	1	D0GB472JA002
R602	ERJ3GEYJ155V	1/16W 1.5M	1	
R604	ERJ3RED105V	1/16W 1M	1	
R605	ERJ3RED514V	1/16W 510K	1	
R606	ERJ2GEJ105X	1/16W 1M	1	D0GA105JA001
R607	ERJ2GEJ225X	1/16W 2.2M	1	ERJ2RMJ225X
R608	ERJ2GEJ394X	1/16W 390K	1	ERJ2RMJ394X
R609	ERJ2GEJ106X	1/16W 10M	1	
R610	ERJ2GE0R00X	CHIP JUMPER	1	
R702,03	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R705	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R706	ERJ3GEYJ153V	1/16W 15K	1	
R707	ERJ3GEYJ682V	1/16W 6.8K	1	D0GB682JA002
R708	ERJ3GEYJ472V	1/16W 4.7K	1	D0GB472JA002
R709	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R710,11	ERJ3GEYJ222V	1/16W 2.2K	2	
S301	K0KABA000004	sw	1	
S302	RSS2A010-1A	sw	1	K0D112B00071
S303	K0C133A00001	sw	1	
S304	K0KABA000004	sw	1	
S305	EVQPUL02K	sw	1	
S306	RSS3A007-1A	sw	1	K0D113B00037
S701-07	RSG0051-P	sw	7	
X101	RSXY20M0M02T	OSCILLATOR	1	
X301	H2D163500001	OSCILLATOR	1	
X302	RSXC32K7L04T	OSCILLATOR	1	H0J327200048

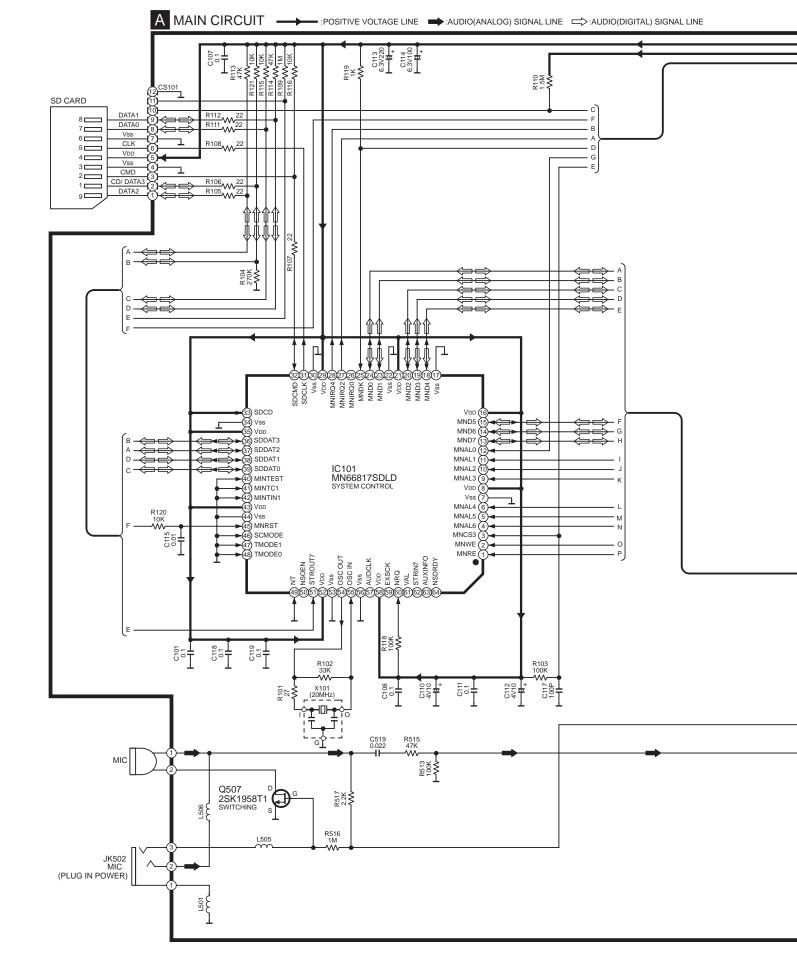
# 13. Cabinet Parts Location

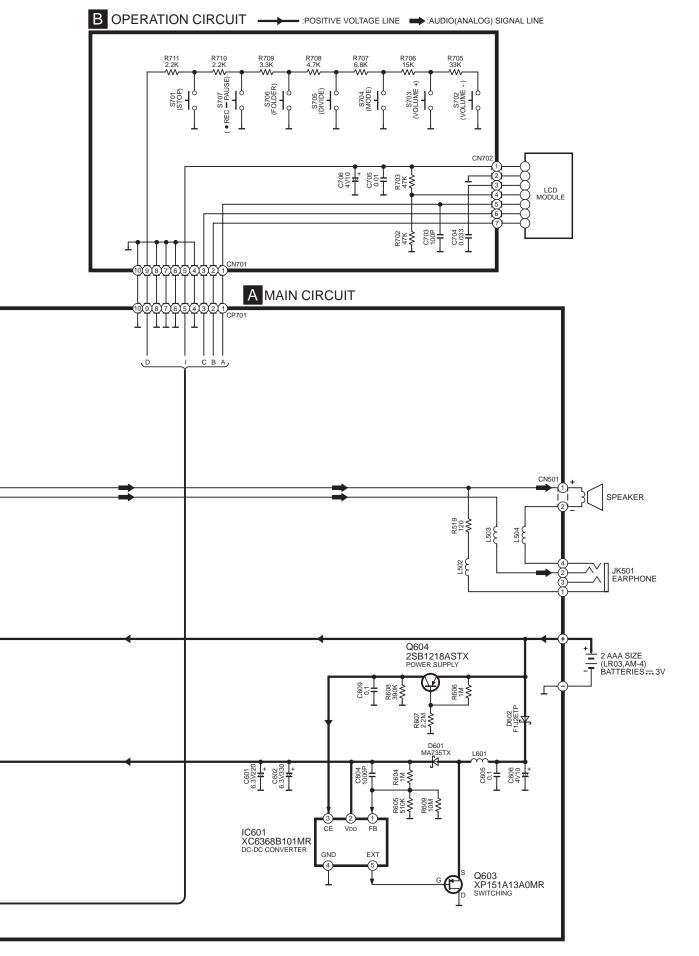


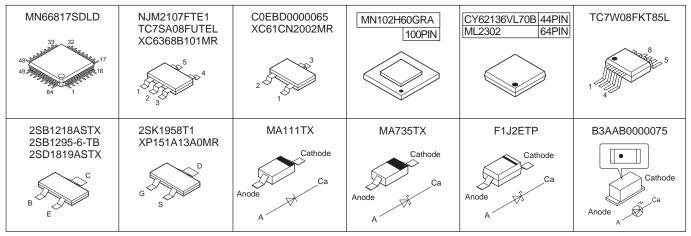
14. Packaging



F010200000MT/KH







These operating instructions explain how to use SD Voice Editor, the software for SD Memory Card IC Recorders. Refer to the on-line help for further information on the menu items and more detailed instructions.

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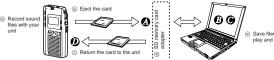
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- ote
  The screen examples show the software being run on an English operating system. The screens may appear differently if you are using a non-English operating system.
  These operating instructions assume that the user has a grasp of the basics of Windows 98 and Windows Millennium Edition. Refer to your computer's operating instructions store.

### What you can do with SD Voice Editor

You can use the SD Voice Editor to save, manage, and play sound files that you have recorded with your SD Memory Card IC Recorder (referred to as "unit" in these instructions).

- File formats
- VM1 for SD Memory Cards
- WAV files in 8 or 16 bit monaural PCM with 8, 11, 16 or 22 kHz sampling frequency ( page 22)



A Save files you have recorded on an SD Memory Card with the unit

Remove the SD Memory Card from the unit and save the files in the computer. Backup the files using SD Voice Editor to avoid losing valuable files due to accidental erasure or damage to the unit or card.

B Edit the files on your computer

After recording files with the unit, you can use SD Voice Editor to divide, reorder, erase, title, resort and create new folders. Play files on your computer
You can play VM1 files from an SD Memory Card or your computer's hard disk

#### Installing the driver for the PC card adapter or USB Reader/Writer

Before usage, read the instructions for the PC card adapter or USB Reader/Writer and install the necessary driver.



#### Installing SD Voice Editor

Turn on the computer and start Windows. 2 Insert the included CD-ROM into the CD-ROM

GIVE.

The installer program starts automatically and shows the welcome screen. If the installer program doesn't start, run the program by specifying the file name ( ⋈ раде 16).



A Read the user agreement and click on "Yes".



6 Confirm the destination and click on "Next".



Confirm the program folder and click on "Next".



Click on "Finish".

nstallation is complete. The SD Voice Editor icon appears on the



#### Before saving files in your computer

Connection to your computer

Eject the SD Memory Card from your unit and connect it to your computer in one of the following ways.

A When your computer doesn't have an SD Memory Card slot

er in both cases. Read the adapter's instructions for details one of the following adapters. You will need to install a Using a USB Reader/Writer (not included) Connect the USB Reader/Writer to the computer's USB port and insert the SD Memory Card into it, taking care that it is facing the right way.

- · Correct operation can not be guaranteed if you use a USB hub or USB extension cord.
- Do not insert or eject SD Memory Cards while the USB Reader/Writer's ACCESS lamp is on. This can corrupt data on the

#### System requirements

ing software and hardware in order to use this application

- ou will need the following software and hardware in order to use this application.

  An IBM PCAT computer with the following attributes or equivalent.

  Ports: One of the following: USB, PCMCIA slot, SD Memory Card slot

  CPU: Pentium? Tel6 MHz or better processor or similar

  RAM: 32 MB or better (64 MB recommended)

  Hard disk space: 5 MB or better (additional space may be required depending on the audio data)

  Drive: CD-ROM drive (for installation)

  Sound beard: Creative Sound Belast: or equivalent

  Sound beard: Creative Sound Belast: or better with a resolution of 800 y 480 dats or better.

- Sound board: Creative Sound Blaster 16 or equivalent
  Display set to high color (16 bit color) or better, with a resolution of 800 x 480 dots or better
  Comparating system: Microsoft\* Windows\*\*98 or Windows\*\*Millennium Edition
  This application can not be used on Windows\*\*31 or Windows\*\*N\*\* or Maciniosh operating system and operation cannot be guaranteed on Windows\*95 and Windows\*\*200.

  Maciniosh of the Comparation of the Compara

## Onvert files saved in your computer, add files to the SD Memory Card, return them to the unit and

By converting files you have saved in your computer, you can attach them to e-mail messages to make voice-mail. (This software does not include an e-mail application.) You can also return WM1 or WAV files you have saved to your computer or received by e-mail to your SD Memory Cart. You can then play these files on the unit by reinserting the cart.

For your reference
You can use MultiMediaCards instead of SD Memory Cards

#### Installing SD Voice Editor

SD Voice Editor can be found on the included CD-ROM. Follow these steps to install it

#### Checking drive ID

You may have to specify the drive ID during installation. Turn on the computer and start Windows. Refer to the following to check the ID of the drive.



## 12

If the installation program doesn't start automatically

In the Window's "Start" menu, click on



2 Type in "#:\SDVOICE\setup.exe" and click on "OK".



- # Enter the CD-ROM ID here. ( page 12, Checking drive ID)
  Letters you enter here can be either upper or lower
- SD Voice Editor setup starts

## Using the on-line help

- To show the on-line help
  Do one of the following.

   Click on "Start" and select "Programs" → "SD Voice
  Editor" → "Help".
- After starting SD Voice Editor, select "Help topics" from the "Help" menu.
- To make a search with the table of contents



displayed.

Double click on and to see an explanation of the item.

Making a search by keyword

The table of contents is replaced by a list of keywords when you click on the "Keywords" tab.

You can find a keyword by either entering it or scrolling

through the list

Using a PC card adapter (not included)

Insert the SD Memory Card into the adapter, and then insert the adapter into the computer's card slot.

#### Note Ensure the SD Memory Card's lock switch is disengaged before inserting it.

When your computer has an SD Memory Card slot

### Insert the card directly into the slot. Formatting SD Memory Cards

ion to format cards. Read the unit's instructions for details

#### File formats

You can use the following sound file formats, but only VM1 files (ADPCM2 codec) can be played and edited with SD Voice Feltor.

WM1 format files (File name: MOBxxx, Extension: .VM1)
This is the format used to record sound on SD Memory Card IC Recorders.
You cannot play data unless it has been recorded using ADPCM2 codec format.

#### ■ WAV format files (File name: FILENAME, Extension: .WAV)

tions. WAV files can be found in 8 or 16 bit PCM (pulse

triss ourmat.

You can convert WAV files to VM1 files with SD Voice Editor. Only WAV files that are monaural 8 or 16 bit PCM with a sampling frequency of 8, 11, 16, or 22 Hz can be converted. WAV files with a sampling frequency of 8 Hz are converted to SP VM1 files and WAV files with sampling frequencies of 11, 16, or 22 Hz are converted to H2 VM1 files.

#### Starting SD Voice Editor

#### Starting up

Start windows.

2 Eject the SD Memory Card from the unit and insert it into the computer.

Insert the SD Memory Card before starting SD Voice Editor. The drive will not be displayed if you insert it after starting the SD Voice Editor.

SD Voice Editor.

3 Double click on the SD Voice Editor icon on the desktop. SO Voice Editor starts and the main window is shown.

For your reference
If the ico is not on the desktop, from the "Start" menu, select "Program" →
"SD Voice Editor" → "SD Voice Editor".





#### For your reference

The main window may not be displayed as shown here if the Windows font setting is large. Change the font setting to small. Read the operating instructions for Windows for details.

#### Exiting SD Voice Editor

To exit SD Voice Editor, either click on the close box (x) in the top right corner, or select "Exit" from the "File" menu.



Exit SD Voice Editor before removing the SD Memory Card from the computer

## Playing files

#### Playing files

Use the player section to play VM1 files on your card or hard disk.

- Select the drive with the drive box.
  The main screen shows the folders in the SD\_VOICE folder in the drive you selected.
- 2 Click on one of the folders in the list.
- 3 Click on the file you want to play.
- 4 Click on play). Play starts



3/4

#### Opening files and folders

Opening rises and rolders You can copy files and folders from any location to the folders in the SD\_VOICE directory so that you can play and edit them. These files or folders are displayed at the end of the list currently shown in the main window. Adding files

1 Click on (file open) on the tool bar.
You can also select "Open file" from the "File" me elect "Open file" from the "File" menu

- Select the file you want to add, then click "Open".

  If you selected a VM file
  The file is added to the end of the file is.

  If you selected a VM file
  The file is added to the end of the file ist.

  If you selected a VMV file
  The file is converted to a VMM file then added to the end of the file ist.



The structure of the folders on SD Memory Cards
Folders on SD Memory Cards with sound files
recorded on them are structured as shown at right. The SD\_VOICE folder has four subfolders in it as the default: SD\_VC001, SD\_VC002, SD\_VC003, and SD\_VC004. The sound files are kept in these folders You can create extra folders.

- There can be between 1 to 9 folders.
  There can be between 1 to 99 files.

An SD\_VOICE directory with the same structure is created on your hard disk when you play or edit these

For your reference These files and folders have all been attributed as "Hidden".



#### SD Memory Card drive settings

A dialog appears when you start SD Voice Editor for the first time and if you specify a drive that doesn't contain an SD\_VOICE folder. Use this dialog to specify the SD card drive.

#### Specify the SD Memory Card drive and click "OK"

- The folders in the SD\_VOICE folder are listed in the main window.
  The same drive is selected the next time you start SD Voice Editor.
  You can change the SD card drive with the main window later.
- Note

  The name of the SD card drive depends on your computer operating environment and
- The continue of the December of the Continue o

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6 Control play with the play section (pr page 61). Refer to the on-line help for operation



- For your reference

  You cannot play W11 files by double clicking on them if you haven't started SD Voice Editor. To play files, start SD Voice Editor to the above steps.

  Editor for the play for the above steps.

  The play file of the start of the start

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#### Adding folders

low the same steps for adding a file. The folder you select is added to the end of the folder list.

Using the voice effector to adjust sound quality
You can adjust sound quality for easier listening by clicking on a local value of the voice effector).
The voice effector control appears above the volume display when you turn it on. You can change sound quality in ten steps by operating the arrows next to the controller.

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The voice effector may not be able to change sound quality on some recordings.

#### Repeat play

■ Repeat play You can play a file repeatedly.

1 After selecting a file, click on (repeat).

The repeat mode is activated and the slider turns white. The repeat mode is canceled if you click on the button again.

2 Click on play). The file is repeated until you click on (stop).

A-B repeat
You can repeat play between two specified points.

After selecting a file, click on (repeat).

The repeat mode is activated and the slider turns white.

2 Click on (play).
The file is repeated until you click on (stop).

Click on (play).
The file is repeated until you click on (stop).
Click on (A) where you want repeating to start.
Click on (B) where you want repeating to end.
Play repeats between points A and B until you click on (stop).
The A and B points are cleared if you click on (reset) during play and repeat play of the file starts.

■ Using the slider to specify the points

We have been a second to the point where you want repeating to start and click on (a). Now drag the slider to the point where you want repeating to start and click on (a). Now drag the slider to the point where you want repeating to a start and click on (b). Now drag the slider to the point where you want repeating to an and click on (b). Now drag the slider to the point where you want repeating to an and click on (c).

Saving folders

Select the folder from the folder list.
Click on (save folder) on the tool bar.
The 'Save' dialog opens.
You can seeledt "Folder" - "Save folder' from the "File" menu.

Select the destination and click "OK".

■ To save the entire SD\_VOICE folder
You can also save the entire SD\_VOICE folder and all the files in it.
Click on (save all) on the tool bar or select "Save all" from the "File" menu.



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#### Returning an SD\_VOICE folder you have saved to your hard disk to an SD Memory Card

When you have saved the entire SD\_VOICE folder with VM1 files to your hard disk, you can then return that folder to your SD Memory Card and play the files on your IC recorder. The contents of the SD\_VOICE folder on the card are replaced by the contents of the new folder. Refer to the on-line help for details.

- Note

  The only SD\_VOICE folders you can return to a card are those that are named "SD\_VOICE"; have the correct structure for an SD\_VOICE folder, and contain only VMI files. Folders with a different structure cannot be played on your IC recorder.

  You cannot select multiple SD\_VOICE folders, files or subfolders.

  A dialog will appear to advise you if the card doesn't have enough memory.

When you replace the existing SD\_VOICE folder on a card, all of its contents will be deleted. Follow the on screen directions if you need to make a backup.

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#### Deleting files and folders

- Deleting files and folders
  You can delete files and folders with one of the following operation.
  Select the file or folder and.
  Click on W. (delete) on the tool bar
  Right click on the item and select "Delete" from the short cut menu
  Press the delete button on the keyboard
  Select "Delete" from the "File" menu

Creating a new folder
You can create a new subfolder within the SD\_VOICE folder with one of the following operation.

\*\*Olick on \( \frac{1}{2} \) (create folder) on the tool bar

\*\*Satisfact Folder' - "New folder' from the "File" menu

\*\*Right click on the folder its reach and satisfact "Create folder' from the short cut menu

Saving files to your computer's hard disk

Saving files to your computer's hard disk You can save sound files, subfolders or the entire SD card folder to your computer's hard disk. You can choose from either VM1 or WAV

Refer to the on-line help for details.

Saving files

You can save individual files or select multiple files to save to your hard disk from your SD Memory Card.

- Select the SD card drive.
   Open the folder to show the list of files.
- 3 Click on the files you want to save to select

No.	Title	Time	Date	Lock	File S
001	loval	00:00:26	2000/09/27 09:04		229.
302	mint	00:00:31	2000/09/27 09:06	Lock	
003	Azert	00:00:26	2000/09/27 09:07		49
004	Voice	000026	2000/09/27 09:07		49.
nns	Domain	00:10:32	2000/09/27 09:18		1.015
900	Md system	00:09:49	2000/09/29 14:46	Lock	2.365

4 Click on (save file) on the tool bar.



6 Enter the destination, file name, and file format. When you select WAV format: enter the file attributes

and file name. When you select VM1 format: the file name is automatically selected.

G Click on "Save".

#### Saving files on your hard disk to an SD Memory Card

You can save individual or multiple files (VM1 format) to an SD Memory Card your hard disk. VM1 files remain as they are and WAV format files (8 or 16 bit monaural linear PCM) are converted to VM1 files. You can play these files with your IC recorder.

The operation depends on where you want to save the files on your SD Memory Card. Refer to the on-line help for details.

You cannot move files to the SD Memory Card by dragging and dropping on the desktop or in Windows Explorer. This can corrupt the files and folders.



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#### Editing files on your computer

You can rearrange and delete the files in the SD\_VOICE folder with your computer. Refer to the on-line help for details

You can enter your own titles for the files to make it easier to find the ones you need. Naming the files makes it easier to find them if you move them to a different folder and editing is made simpler.

#### Moving files and folders

You can move files within a folder to rearrange their order, you can move them to a different folder, or you can move folders to change their order within the SD\_VOICE folder.

Drag and drop the file or folder to the position you want to move it to



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#### Sorting files

Sorting rises
You can sort the sound file list in different ways by clicking on the item buttons at the top of the list.

After the files have been resorted, the file numbers are changed accordingly and the sound files on the SD card are also

Button	Order
Title	Alphabetical order
Recording time	Sorted by shortest recording time to longest recording time or vice versa
Recording date	Sorted by oldest to most recent or vice versa
File lock	Sorted by whether the file is locked or unlocked
File size	Sorted from largest to smallest or vice versa
Mode	Sorted by recording mode (HQ, LP, and SP) in alphabetical order

Clicking the same button again reverses the current order.

#### Changing file and folder titles

■ Changing file titles

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- In the file list, click on the file you want to title.
- Select "Change file title" from the "File" menu.
   Enter the new title. The title can have up to 200 characters
   Changing folder titles
- 1 In the folder list, click on the subfolder you want to title.
- 2 Select "Folder" "Change folder title" from the "File" menu. Enter the new title. The title can have up to 32 characters.

Dividing sound files
You can divide a sound file into two separate sound files at a time you specify.

- Dividing while playing a file
- Play the file you want to divide.
- 2 Press (divide) at the point you want to divide the file. Specifying a point before division
- 1 In the file list, click on the file you want to divide.

Move the slider to the point where you want to divide the file.

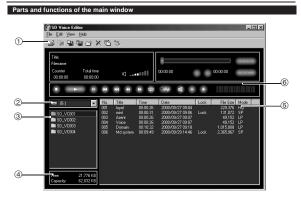
Press [must] (divide).

• A dislag appears asking whether you want to divide the file.

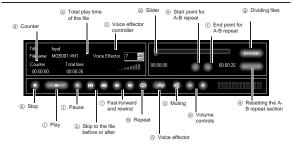
• To divide the file, click "Yes." To cancel the operation. click "No".

• You can return the file to it so original state by clicking [s] (mod) on the toolbar.

The cursor moves to the file that was added. As the two files will have the same file name, you should change the name of one of them to make later defining simple.



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#### File sizes The sizes The size of files in kilobytes when saved to a computer

Mode/time	VM1 file	WAV files							
		8 KHz		11 kHz		16 kHz		22 kHz	
		8 bit	16 bit	8 bit	16 bit	8 bit	16 bit	8 bit	16 bit
HQ/1 minute	472	=		647	1294	939	1878	1294	2588
SP/1 minute	236	470	940	-		-		-	
LP/1 minute	95	470	940	-		-		-	
Note: WAV files cann	not be converted to L	P mode.							Unit: KB

Locking files

Locking files means that you will be unable to change their titles or divide them.

A dialog will appear when you try to delete or move a locked file. Click "Yes" to proceed.

Files can be unlocked again.

1 In the file list, click on the file you want to lock.

Select "File lock" from the "Edit" menu.
To unlock the file, in the file list, click on the file, then select "File unlock" from the "Edit" menu.
The file list shows whether a file is locked or not.

Attaching files to e-mail ou can send e-mail with sound by converting files to WAV format and attaching them to e-mail messages.

1 Select the file you want to send.

Click on [a] (save file) on the tool bar.
Select WAV for the file format and click on "Save".
Startup your e-mail application (not included).

(3) With your e-mail application's attach file function, select the WAV file you created.
(3) Send the e-mail.

Refer to the instructions for your e-mail application for details on how to attach files

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#### Menu/tool bar

You can access all the menu commands with the menu bar. Commonly used menu commands appear as buttons on the tool bar. Refer to the on-line help for details.



#### ② Drive box

Select the SD Memory Card drive you want to display with the drive box. The folders and files in the SD\_VOICE folder in the selected drive are listed.



#### ③ Remaining drive memory

This shows the total memory and remain drive you selected with the drive box.



Cards shown as being full when in the IC recorder may appear as having space when viewed in SD Voice Editor. This space is used by the IC recorder's operating system.

## Folder list

This shows the folders in the SD\_VOICE folder in the drive you selected with the drive box. The files in a folder are shown in the file list when you click on it.



### File list

This shows the files in the folder you selected in the folder list. Along with the file number, the list also shows the titles, recording times, recording dates, whether the files are locked or not, and the recording mode.

No.	Title	Time	Date	Lock	File Size	Mode
001	loval	00:00:26	2000/09/27 09:04		229.376	HD
002	mint	00:00:31	2000/09/27 09:06	Lock	131.072	
003	Azent	00.00.26	2000/09/27 09 07			
084	Voice	00:00:26	2000/09/27 09:07		49 152	
005	Domain	00:10:32	2000/09/27 09:18		1.015.808	
300	Md system	00.09.49	2000/09/29 14:46			

#### 6 Player section

Use this section to play files. The contents of the SD Memory Card and information about the file playing are shown Refer to the on-line help for details.

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Problem	Causes and solutions		
Cannot install.	There may not be enough memory on the hard disk.     → Check the disk's memory.		
Cannot download files from an SD Memory Card.	The drive for the SD Memory Card hasn't been recognized.  Exit SD Voice Editor, reinser the SD Memory Card correctly, then restart SD Voice Editor. The drive will not be displayed if you insert the card after starting the program.  Confirm that you are using the USB Reader/Writer or PC card correctly. See the operating instructions for the adapter for details.		
Cannot play file.	The computer doesn't have a sound board. (FF page 8) The computer doesn't have a speaker or speakers are not connected.		
Volume is low.	Turn up the computer's volume. (Refer to the computer's operating instructions for details.)		
Sound skips during play.	Do not operate Windows or other applications during play.		
The screen freezes while saving, adding, or deleting files.	Copying and deleting large files may take some time.     → Normal operation resumes once the operation is completed.		

Use the latest version of the driver software for your sound board.

## Error messages Refer to the list of error messages in the on-line help.

#### Uninstalling SD Voice Editor

Do the following to delete SD Voice Editor from your hard disk

1 In the "Start" menu, select "Settings" → "Control



2 Double-click on "Add/Remove Programs". The uninstaller program will start

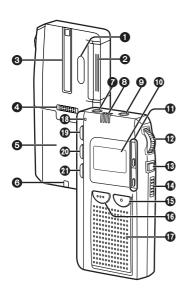
3 Follow the onscreen instructions.

If you want to install this program onto a different drive or folder, first uninstall it, then reinstall it into the desired location. The program will not work if you merely move the file.

## Limitations in Windows Explorer

- SD Memory Cards are shown as external drives (for example, "D") in Windows Explorer when they are connected to the compiler. Y claus are shown as extended unless four examples, D in Yenhows Expense when they are connected to the compiler. On the text Expense to move Soft Memory Card fillies or folders, change their names, or delete them. This can render the files unplayable. Use only SD Volice Editor for editing.

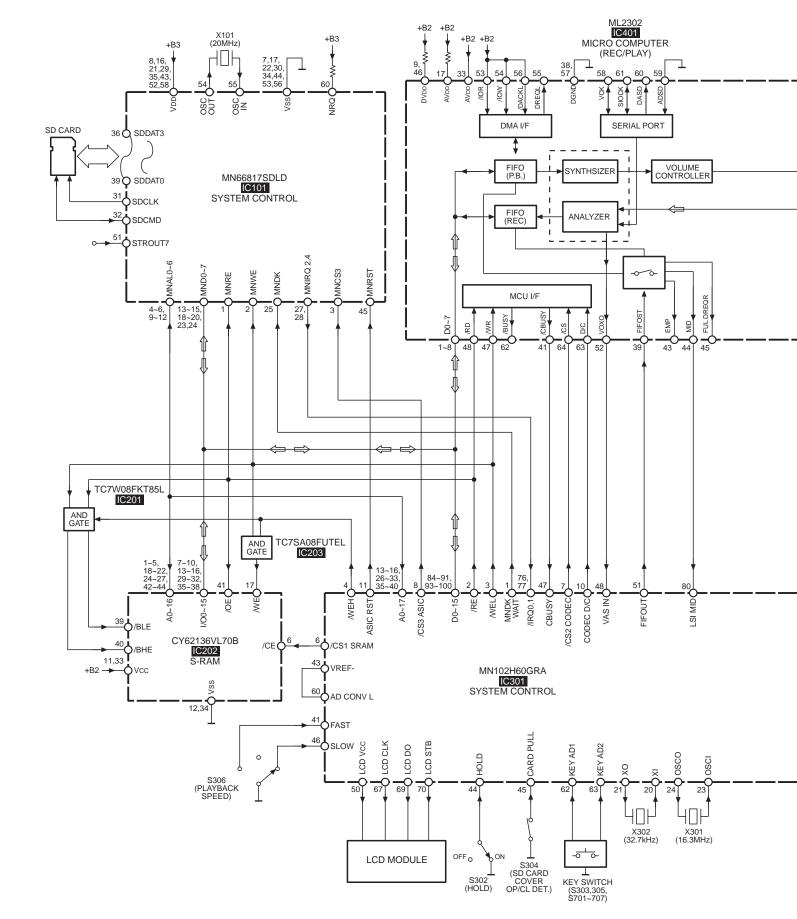
  Similarly, do not use Explorer to move, change the names of, or delete files and folders you have saved to your computer. When using Explorer on a portable computer, ensure the computer is connected to an AC power source. Data can be corrupted if the charge in the rechargeable battery is flow.

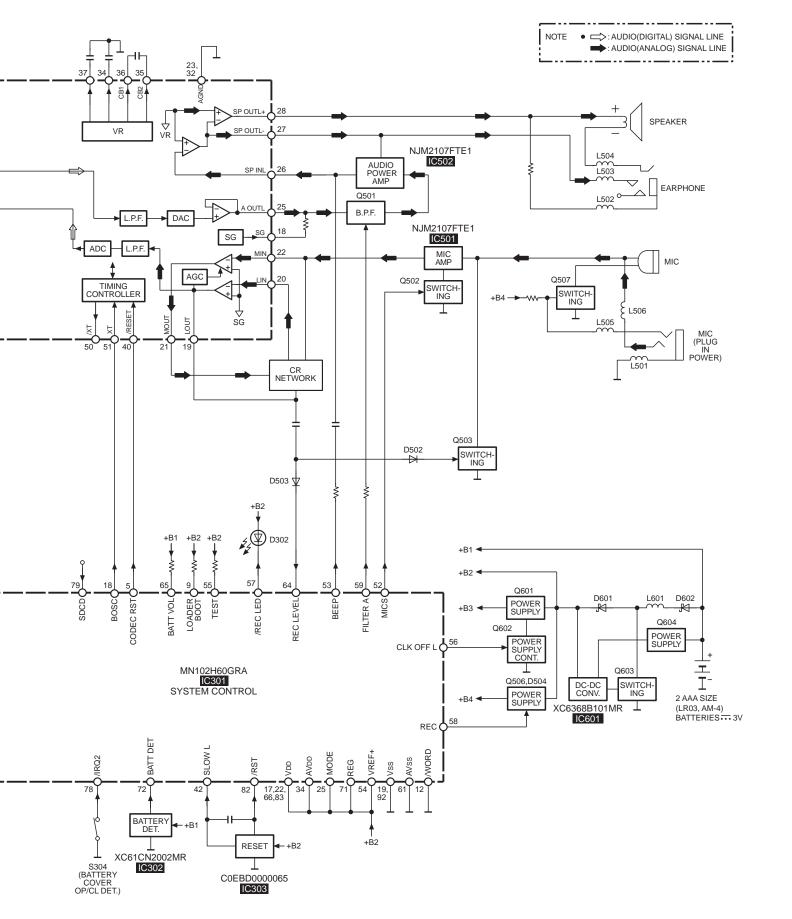


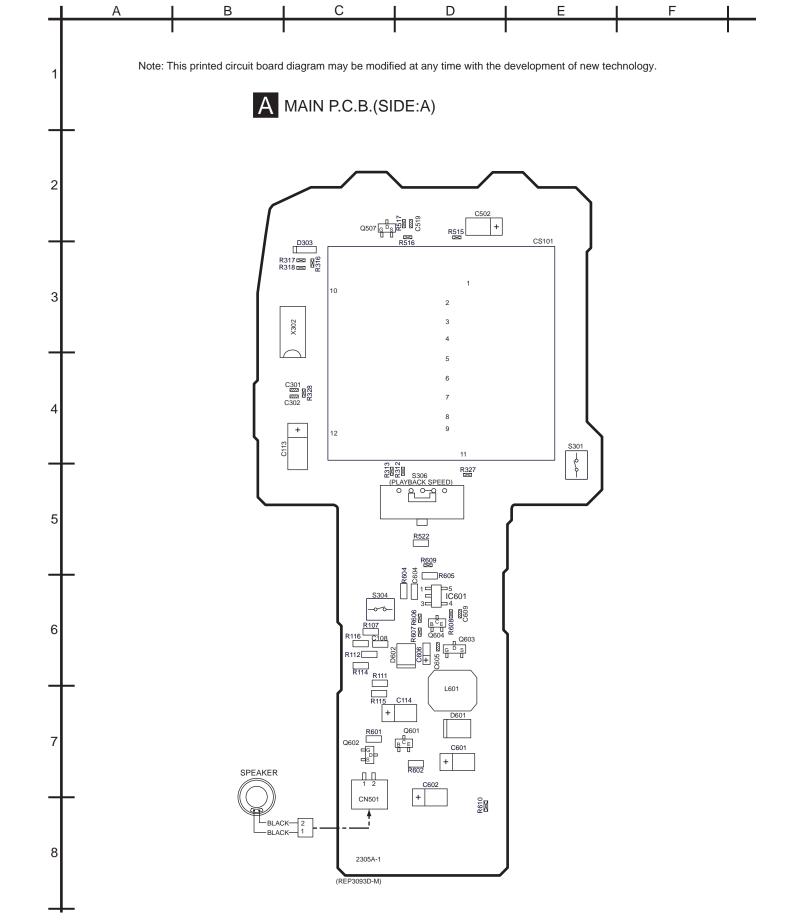
- Card window
- 2 SD Memory Card cover
- Clip
- 4 Play speed switch [PLAYBACK SPEED]
- 6 Battery cover
- 6 Hand strap hole
- Microphone jack [MIC (PLUG IN POWER)]
- Built-in microphone [MIC]
- Earphone jack [?]
- Display screenVolume [VOLUME (+, -)]
- 1 Shuttle key [SELECT, ENTER]
- B Erase [ERASE]
- Hold [HOLD]
- (B) Recording, pause [REC, PAUSE]
- (6) Stop [STOP]
- SpeakerRecording indicator
- Mode [MODE]
- Divide [DIVIDE]
- Folder [FOLDER]

#### Note

Ensure the battery cover can close completely if you fit a hand strap. Fitting a thick strap can cause the cover to close incompletely and lead to incorrect operation.







G H I J K L

# A MAIN P.C.B.(SIDE:B)

